



WD

GAU 1644/Box Seg 2

MORPHO/7

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**RECEIVED**

Examiner : Amy DeCloux

DEC 13 1999

Group Art Unit : 1644

TECH CENTER 1600/2900

Applicant : Pluckthun, Andreas et al.

Serial No. : 09/232,290

Filed : January 15, 1999

For : IMMUNOGLOBULIN SUPER FAMILY DOMAINS AND  
FRAGMENTS WITH INCREASED STABILITY

New York, New York  
December 1, 1999

Hon. Assistant Commissioner  
for Patents  
Washington, D.C. 20231

RECEIVED  
TECH CENTER 1600/2900  
99 DEC 13 AM 8:00

**RECEIVED**

DEC 20 1999

STATEMENT IN SUPPORT OF COMPUTER READABLE  
FORM SUBMISSION UNDER 37 C.F.R. § 1.821(e)

TECH CENTER 1600/2900

Sir:

I hereby state that the copy of the computer readable  
form, submitted in the above-identified application in accordance  
with 37 C.F.R. § 1.825(e), is the same as the Sequence Listing  
filed concurrently herewith.

Respectfully submitted,

James F. Haley, Jr. (Reg. No. 27,794)  
Attorney for Applicants  
Scott D. Miller (Reg. No. 43,803)  
Agent for Applicants  
c/o FISH & NEAVE  
1251 Avenue of the Americas  
New York, New York 10020  
Tel.: (212) 596-9000

I hereby Certify that this  
Correspondence is being  
Deposited with the U.S.  
Postal Service as First  
Class Mail in an Envelope  
Addressed to: ASSISTANT  
COMMISSIONER FOR  
PATENTS  
WASHINGTON, D.C. 20231 on  
December 1, 1999

Signature of Person Signing

RECEIVED  
DEC 14 1999  
TC 1700 MAIL ROOM

**RECEIVED**  
DEC 09 1999

TECH CENTER 1600/2900

PAGE: 1

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/232,290DATE: 12/21/1999  
TIME: 00:57:54

INPUT SET: S34297.raw

This Raw Listing contains the General  
Information Section and those Sequences  
containing ERRORS.

1

## SEQUENCE LISTING

2

3

## (1) General Information:

Does Not Comply  
Corrected Diskette Needed

4

5

(i) APPLICANT: Pluckthun, Andreas  
6 Nieba, Lars  
7 Honegger, Annemarie

8

9

(ii) TITLE OF INVENTION: Immunoglobulin Super Family Domains and Fragments with

10

11

(iii) NUMBER OF SEQUENCES: 60

12

13

14

(iv) CORRESPONDENCE ADDRESS:

15

(A) ADDRESSEE: James F. Haley, Jr., Esq. c/o FISH & NEAVE  
(B) STREET: 1251 Avenue of the Americas  
(C) CITY: New York  
(D) STATE: New York  
(E) COUNTRY: United States of America  
(F) ZIP: 10020

21

22

(v) COMPUTER READABLE FORM:

23

24

25

26

(A) MEDIUM TYPE: Floppy disk  
(B) COMPUTER: IBM PC compatible  
(C) OPERATING SYSTEM: PC-DOS/MS-DOS  
(D) SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)

27

28

(vi) CURRENT APPLICATION DATA:

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

add → (A) APPLICATION NUMBER: WO PCT/EP96/02230  
→ (B) FILING DATE?

(vii) PRIOR APPLICATION DATA:

goes under PRIOR APP DATA:

(A) APPLICATION NUMBER: EP 95 10 7914.4  
(B) FILING DATE: 23-MAY-1995  
(C) APPLICATION NUMBER: WO PCT/EP96/02230  
(D) FILING DATE: 23-MAY-1996

(viii) (viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: James F. Haley, Jr., Esq.  
(B) REGISTRATION NUMBER: 27,794  
(C) DOCKET NUMBER: MORPHO/7  
REFERENCE/DOCKET NUMBER

(ix) (ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: (212)596-9000  
(B) TELEFAX: (212)596-9090

## ERRORED SEQUENCES FOLLOW:

156 (2) INFORMATION FOR SEQ ID NO: 4:  
 157  
 158 (i) SEQUENCE CHARACTERISTICS:  
 159 (A) LENGTH: 113 amino acids  
 160 (B) TYPE: amino acid  
 161 (C) STRANDEDNESS: single  
 162 (D) TOPOLOGY: linear  
 163  
 164 (ii) MOLECULE TYPE: protein  
 165  
 166  
 167  
 168 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:  
 169  
 170 Asp Val Val Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly  
 171 1 5 10 15  
 172  
 173 Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Val His Ser  
 174 20 25 30  
 175  
 176 Asn Gly Asn Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser  
 177 35 40 45  
 178  
 179 Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro  
 180 50 55 60  
 181  
 182 Asp Arg Phe Ser Gly Ser Gly Thr Asp Phe Tyr Leu Lys Ile  
 183 65 70 75 80  
 184  
 185 Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Phe Cys Ser Gln Ser  
 186 85 90 95  
 187  
 188 Thr His Val Pro Leu Thr Phr Gly Ala Gly Thr Lys Leu Glu Leu Lys  
 189 100 105 110  
 190  
 191 Arg  
 192 113  
 193  
 194 *delete - write the amino acids under every 5 amino acids*  
 195 (2) INFORMATION FOR SEQ ID NO: 5:  
 196  
 197 (i) SEQUENCE CHARACTERISTICS:  
 198 (A) LENGTH: 106 amino acids  
 199 (B) TYPE: amino acid  
 200 (D) TOPOLOGY: linear

*next page*

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/232,290DATE: 12/21/1999  
TIME: 00:57:54

INPUT SET: S34297.raw

201  
202 (ii) MOLECULE TYPE: protein  
203  
204  
205 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:  
206  
207 Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly  
208 1 5 10 15  
209  
--> 210 Asp *Art* Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Arg Trp  
211 20 25 30  
212 *Amidated*  
213 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Val Pro Lys Leu Leu Ile  
214 35 40 45  
215  
216 Tyr Lys Ala Ser Ser Leu Glu Ser Gly Val Pro Ser Arg Phe Ser Gly  
217 50 55 60  
218  
219 Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro  
220 65 70 75 80  
221  
222 Asp Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asn Ser Tyr Ser Phe  
223 85 90 95  
224  
225 Gly Pro Gly Thr Lys Val Asp Ile Lys Arg  
226 100 105  
227  
228

---

229 (2) INFORMATION FOR SEQ ID NO: 6:  
230

--> 231 (i) SEQUENCE CHARACTERISTICS:  
232 (A) LENGTH: 108 amino acids  
233 (B) TYPE: amino acid  
234 (C) STRANDEDNESS: single  
235 (D) TOPOLOGY: linear

236  
237 (ii) MOLECULE TYPE: protein

*next page*

238  
239  
240 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:  
241

242 Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Val Gly  
243 1 5 10 15  
244  
245 Glu Thr Val Thr Ile Thr Cys Thr Ala Ser Gly Asn Ile His Asn Tyr  
246 20 25 30  
247  
248 Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro Gln Leu Leu Val  
249 35 40 45  
250  
251 Tyr Tyr Thr Thr Leu Ala Asp Gly Val Pro Ser Arg Phe Ser Gly  
252 50 55 60

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/232,290DATE: 12/21/1999  
TIME: 00:57:55

INPUT SET: S34297.raw

253  
 254       Ser Gly Ser Gly Thr Gln Tyr Ser Leu Lys Ile Asn Ser Leu GLn Pro  
 255                       65                       70                       75                       80  
 256  
 --> 257       Glu Aps Phe Gly Ser Tyr Tyr Cys Gln His Phe Trp Ser Thr Pro Arg  
 258                       85                       90                       95  
 259  
 260       Thr Phe Gly Gly Thr Lys Leu Glu Ile Lys Arg  
 261                       100                       105  
 262  
 263  
 264

446 (2) INFORMATION FOR SEQ ID NO: 12:

447

448 (i) SEQUENCE CHARACTERISTICS:

449

(A) LENGTH: 114 amino acids  
 450 (B) TYPE: amino acid  
 451 (C) STRANDEDNESS: single  
 452 (D) TOPOLOGY: linear

453

454

(ii) MOLECULE TYPE: protein

455

456

457

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

458

459

Asp Ile Cal Met Thr Gln Ser Pro Ser Ser Leu Thr Val Thr Ala Gly

460

1               5                       10                       15

461

462

Glu Lys Val Thr Met Ser Cys Thr Ser Ser Gln Ser Leu Phe Asn Ser

463

20                       25                       30

464

465

Gly Lys Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln

466

35                       40                       45

467

468

Pro Pro Lys Val Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val

469

50                       55                       60

470

471

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr

472

65                       70                       75                       80

473

474

Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr Tyr Cys Gln Asn

475

85                       90                       95

476

477

Asp Tyr Ser Asn Pro Leu Thr Phe Gly Gly Thr Lys Leu Glu Leu

478

100                       105                       110

479

480

Lys Arg

481

482

483

484

485

INPUT SET: S34297.raw

---

2087 (2) INFORMATION FOR SEQ ID NO: 57:

2088

2089 (i) SEQUENCE CHARACTERISTICS:

2090 (A) LENGTH: 113 amino acids

2091 (B) TYPE: amino acid

2092 (D) TOPOLOGY: linear

2093

2094 (ii) MOLECULE TYPE: protein

2095

2096 + delete

2097

2098 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 57:

2099 T

2100 *insert* Asp Val Gln Leu Gln Glu Ser Gly Pro Ser Leu Val Lys Pro Ser Gln

2101 1 5 10 15

2102

--> 2103 Thr Leu Ser Leu Thr Cys Ser Val Thr Gly Asp Ser Ile Thr Ser Asp

--> 2104 20 25 30

2105

--> 2106 Tyr Trp Ser Trp Ile Arg Lys Phe Pro Gly Asn Arg Leu Glu Tyr Met

--> 2107 35 40 45

2108

--> 2109 Gly Tyr Val Ser Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser Leu Lys

--> 2110 50 55 60

2111

--> 2112 Ser Arg Ile Ser Ile Thr Arg Asp Thr Ser Lys Asn Gln Tyr Tyr Leu

--> 2113 65 70 75 80

2114

--> 2115 Asp Leu Asn Ser Val Thr Thr Glu Asp Thr Ala Thr Tyr Tyr Cys Ala

--> 2116 85 90 95

2117

--> 2118 Asn Trp Asp Gly Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser

--> 2119 100 105 110

2120

--> 2121 Ala

--> 2122 ~~113~~

2123

---

2162 (2) INFORMATION FOR SEQ ID NO: 59:

2163 (i) SEQUENCE CHARACTERISTICS:

2164 (A) LENGTH: 118 amino acids

2165 (B) TYPE: amino acid

2166 (D) TOPOLOGY: linear

2167

2168 (ii) MOLECULE TYPE: protein

*Ignore this as due  
to above-mentioned  
error*

2169

2170

2171 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 58:

2172

2173 Glu Val Gln Leu Asp Glu Thr Gly Gly Leu Val Gln Pro Gly Arg

2174 1 5 10 15

2175

*FYI: All U.S. applications filed on or after July 1, 1998,  
and which do not claim a prior U.S. application, must  
be in new sequence ruler format. See attached sample  
Sequence Listing, in new format.*